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## THAT WHICH IS CLAIMED:

1. A process for producing spunbond nonwoven fabric, comprising the steps of:

separately melting two or more polymeric components;

separately directing the two or more molten polymer components through a spin beam assembly equipped with a distribution plate configured so that the separate molten polymer components combine at a multiplicity of spinnerette orifices to form filaments containing the two or more polymer components;

extruding the multicomponent filaments from the spinnerette orifices into a quench chamber;

directing quench air from a first independently controllable blower into the quench chamber and into contact with the filaments to cool and solidify the filaments;

directing the filaments and the quench air into and through a filament attenuator and pneumatically attenuating and stretching the filaments;

directing the filaments from the attenuator into and through a filament depositing unit;

depositing the filaments from the depositing unit randomly upon a moving continuous air-permeable belt to form a nonwoven web of substantially continuous filaments;

applying suction from a second independently controllable blower beneath the airpermeable belt so as to draw air through the depositing unit and through the airpermeable belt; and

directing the web through a bonder and bonding the filaments to convert the web into a coherent nonwoven fabric.

2. The process according to Claim 1, wherein the two or more polymer components are arranged in a cross-sectional configuration selected from sheath core, side by side, segmented pie, islands-in-the-sea, or tipped profile.

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- 3. The process according to Claim 1, wherein one polymer component is polyethylene and another polymer component is polypropylene.
- 4. The process according to Claim 1, wherein two polymer component are directed through the spin beam assembly and are combined at the spinnerette orifices to firm sheath-core bicomponent filaments, and wherein one of the polymer components is polypropylene and the other polymer component is a polymer having different properties from said polypropylene polymer component.
- 5. The process according to Claim 1, wherein said extruding step comprises extruding the filaments through spinnerette orifices arranged at a density of at least 3000 orifices per meter.
  - 6. A process for producing a spunbond nonwoven fabric, comprising the steps of:

separately melting first and second polymeric components;

separately directing the first and second molten polymer components through a spin beam assembly equipped with distribution plate configured so that the separate molten polymer components combine at a multiplicity of spinnerette orifices to form bicomponent filaments containing a core of the first polymer component and a surrounding sheath of the second polymer component, the spinnerette orifices being arranged at a density of at least 3000 orifices per meter;

extruding the bicomponent filaments from the spinnerette orifices into a quench chamber;

directing quench air from a first independently controllable blower into the quench chamber and into contact with the filaments to cool and solidify the filaments;

directing the filaments and the quench air into and through a filament attenuator and pneumatically attenuating and stretching the filaments;

directing the filaments from the attenuator into and through a filament depositing unit;

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depositing the filaments from the depositing unit randomly upon a moving continuous air-permeable belt to form a nonwoven web of substantially continuous filaments;

applying suction from a second independently controllable blower beneath the airpermeable belt so as to draw air through the depositing unit and through the airpermeable belt; and

directing the web through a bonder and bonding the filaments to convert the web into a coherent nonwoven fabric.

- 7. The process according to Claim 6, wherein the first polymer component is polypropylene and the second polymer component is polyethylene.
  - 8. The process according to Claim 6, wherein the first polymer component is polypropylene and the second polymer component is a different polypropylene.
  - 9. The process according to Claim 6, wherein the step of directing the web through a bonder comprises directing the web through a calender including a patterned calender roll and forming discrete point bonds throughout the fabric
  - 10. A system for manufacturing spunbond nonwoven fabric which includes: two or more extruders for separately melting, respectively, two or more polymer components;
  - a spin beam assembly connected to said extruders for separately receiving the molten polymers components therefrom;
- said spin beam assembly including a spinnerette plate defining a multiplicity of spinnerette orifices, and a distribution plate configured so that the separate molten polymer components combine at the spinnerette orifices to form multicomponent filaments;
- a quench chamber positioned adjacent to the spin plate for receiving filaments 30 extruded from the spinnerette orifices; and

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a first independently controllable blower mounted for directing air into the quench chamber and into contact with the filaments to cool and solidify the filaments;

an attenuator positioned for receiving the filaments and the quench air and configured for pneumatically attenuating and stretching the filaments;

a filament depositing unit;

a moving continuous air-permeable belt positioned for having randomly deposited thereon the filaments from the depositing unit to form a nonwoven web of substantially continuous filaments;

a second independently controllable blower positioned beneath the air-permeable belt so as to draw air through the depositing unit and through the air-permeable belt; and a bonder for bonding the filaments and to form therefrom a coherent nonwoven fabric.

- 11. The system according to Claim 10, wherein said distribution plate is configured so that the separate molten polymer components combine in a cross-sectional configuration selected from sheath core, side by side, segmented pie, islands-in-the-sea, tipped profile.
- 12. The system according to Claim 10, wherein said spinnerette has orifices arranged at a density of at least 3000 orifices per meter.
  - 13. A system for manufacturing spunbond nonwoven fabric which includes: first and second extruders for separately melting first and second polymer components;

a spin beam assembly connected to said extruders for separately receiving the molten polymers components therefrom;

said spin beam assembly including a spinnerette plate defining a multiplicity of spinnerette orifices arranged at a density of at least 3000 orifices per meter, and a distribution plate configured so that the separate molten polymer components combine at the spinnerette orifices to form bicomponent filaments having a core formed of the first polymer component and a surrounding sheath formed of the second polymer component;

a quench chamber positioned adjacent to the spin plate for receiving filaments extruded from the spinnerette orifices; and

a first independently controllable blower mounted for directing air into the quench chamber and into contact with the filaments to cool and solidify the filaments;

an attenuator positioned for receiving the filaments and the quench air and configured for pneumatically attenuating and stretching the filaments;

a filament depositing unit;

a moving continuous air-permeable belt positioned for having randomly deposited thereon the filaments from the depositing unit to form a nonwoven web of substantially continuous filaments;

a second independently controllable blower positioned beneath the air-permeable belt so as to draw air through the depositing unit and through the air-permeable belt; and a bonder for bonding the filaments and to form therefrom a coherent nonwoven

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fabric.

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- 14. The system according to Claim 13, wherein the first polymer component is polypropylene and the second polymer component is polyethylene.
- 15. The system according to Claim 13, wherein the first polymer component is polypropylene and the second polymer component is a different polypropylene.
- 16. The system according to Claim 13, wherein the bonder comprises a calender including a patterned calender roll which forms discrete point bonds throughout the fabric.